

Kansas Administrative Regulations

Kansas Department of Agriculture

Article 10.—Anhydrous Ammonia

4-10-1. Definitions.

(a) "Appurtenances" means all devices that are used in connection with a container, including safety devices, liquid-level gauging devices, valves, pressure gauges, fittings, and metering or dispensing devices.

(b) "ASME" means American society of mechanical engineers.

(c) "ASME schedule 80" and "ASME schedule 40" mean pipe specifications contained in the 2007 edition of the ASME boiler and pressure vessel code, section II, part A, SA-53/SA-53M, titled "specification for pipe, steel, black and hot-dipped, zinc-coated, welded and seamless," and the appendices, which are hereby adopted by reference.

(d) "Backflow check valve" means a device designed to prevent ammonia from flowing in the wrong direction within a pipe or tube.

(e) "Capacity" means the total volume of a container as measured in standard U.S. gallons of 231 cubic inches, unless otherwise specified.

(f) "Chemical-splash goggles" and "Splashproof goggles" mean flexible-fitting chemical-protective goggles, with a hooded, indirect ventilation system that provides protection to the eyes and eye sockets from the splash of hazardous liquids. This term shall not include direct vented goggles.

(g) "Code" means the "introduction," the relevant parts of UG-1 through UG-137 titled "part UG: general requirements for all methods of construction and all materials," and parts UF-1 through UF-125 titled "part UF: requirements for pressure vessels fabricated by forging" of section VIII, division 1, of the ASME boiler and pressure vessel code, 2007 edition, which are hereby adopted by reference.

(h) "Container" means any vessel designed to hold anhydrous ammonia that is used for the storage, transportation, or application of anhydrous ammonia. This definition shall not apply to any refrigerated vessel with a design pressure of less than 15 psig.

(i)"Data plate" means a piece of noncorroding metal permanently attached by the manufacturer to the surface of a container that has been designed and constructed in accordance with paragraph UG-116 of section VIII, division 1 of the ASME code, 2007 edition, which is adopted by reference in subsection (g).

(j)"Densely populated area" means any location with either one or more multifamily housing units or eight or more single-family dwellings located within a quarter section.

(k)"Designed pressure" means maximum allowable working pressure.

(l)"Emergency shutoff valve" means a valve that stops the flow of product by spring closure, gravity, or pressure and can be activated by an outside means including a cable pull, hose pull, air assists, electrical closure, or back pressure. The emergency shutoff valve shall be placed in the liquid line internally or externally to the container. If an external valve is used, the valve shall be after the manual shutoff valve but as close to the opening of the container as possible. The emergency shutoff valve shall work properly from a remote location or when activated at the valve.

(m)"Excess-flow valve" means a device placed in a line that is designed to close when the flow of vapor or liquid flowing through the line exceeds the amount for which the valve is rated.

(n)"Filling density" means the percent ratio of the weight of gas in a container to the weight of water that the container will hold at 60° F.

(o)"Implement of husbandry" means a farm wagon-type vehicle or application unit that has an anhydrous ammonia container mounted on it and that is used for transporting anhydrous ammonia from a source of supply to farms or fields or from one farm or field to another.

(p)"Mobile container" means any container that is not installed as a permanent storage container.

(q)"National board inspector" is a person who holds a valid national board commission from the national board of boiler and pressure vessel inspectors and has fulfilled the national board commission requirements as specified in section VIII of the ASME code, 2007 edition.

(r)"NIOSH" means the national institute for occupational safety and health.

(s) "Non-code welding" means welding that does not comply with parts UW-1 through UW-65 of the ASME boiler and pressure vessel code, section VIII, division 1, titled "part UW: requirements for pressure vessels fabricated by welding," 2007 edition, which is hereby adopted by reference.

(t) "PSIG" means pounds per square inch gauge pressure.

(u) "Permanent storage container" means a stationary container having a volume of at least 3,000 water gallons.

(v) "Permanent storage facility" means a site that includes one or more permanent storage containers and their connections and appurtenances.

(w) "Pressure-relief valve" means a device designed to open to relieve pressure above a specified value to prevent an increase in internal fluid or vapor and to close once acceptable pressure conditions have been restored.

(x) "Proof-of-inspection seal" and "current KDA-issued proof-of-inspection seal" mean the decal applied to a permanent system following a successful KDA inspection, which shall occur once per calendar year. The seal is current until it expires on December 31 of the year following the inspection.

(y) "Public assembly area" means any building or structure established to accommodate groups of people for commercial, civic, political, religious, recreational, educational, or similar purposes. This term shall include buildings or structures used for medical care, including hospitals, assisted care facilities, and prisons.

(z) "Reactor unit" means equipment that utilizes anhydrous ammonia to manufacture liquid fertilizer.

(aa) "Respirator" means an air-purifying device with a full face-piece that has been approved by NIOSH under the provisions of 30 CFR Part II, Subpart I [13], dated July 1, 2009, for use in an ammonia-contaminated atmosphere, in compliance with 29 CFR 1910.134, dated July 1, 2009.

(bb) "System" means an assembly of one or more containers, pipes, pumps, and appurtenances used for the storage, transfer, transportation, or application of anhydrous ammonia, which may be permanent or mobile. This definition shall not apply to interstate anhydrous ammonia pipelines.

(cc) "USDOT" and "D.O.T." mean United States department of transportation.

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***** Authenticated Kansas Administrative Regulation *****